

PATENT ABSTRACTS OF JAPAN

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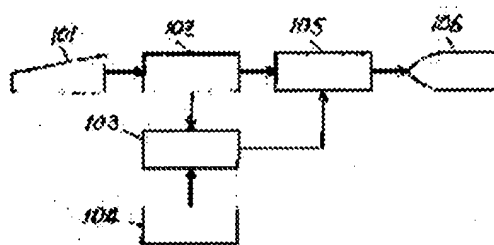
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(54) CURSOR CONTROLLER

(57)Abstract:

PURPOSE: To make a cursor easy to recognize by changing the cursor to be noticeable in proportion to the cursor moving speed in controlling the cursor directing the input position on a screen.

CONSTITUTION: The cursor controller makes a cursor easy to recognize by providing an operation input means 101 permitting an operator to designate the cursor position, a position changing means 102 extracting the coordinate position information of the cursor, a moving speed calculating means 103 calculating the cursor moving speed based on the time information obtained from a timing generation means 104, and a cursor changing means 105 changing the size, shape or color of the cursor based on the information from the moving speed calculating means 103.



LEGAL STATUS

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2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the control unit of cursor in which the input location on the screen in displays, such as information machines and equipment, is shown.

[0002]

[Description of the Prior Art] In the conventional cursor controller, in order to make it easy to recognize visually, the approach the magnitude of cursor, a configuration, and a color tone changed by the field where cursor exists was taken.

[0003] The conventional cursor controller is explained below. Drawing 3 shows the configuration of the equipment of the conventional cursor control. In drawing 3, 301 is an actuation input means by which a user inputs cursor location information. 302 is a repositioning means to extract the coordinate positional information of cursor while moving cursor to the specified coordinate location. It is a purpose-of-use judging means to judge whether 303 has cursor on the application program (it abbreviates to the purpose of use hereafter) which the user is going to use. 304 is a purpose-of-use field management tool which has managed the activity eye-field. 305 is a cursor modification means to change the magnitude of cursor, a configuration, or a color tone. 306 is a display which displays the purpose of use and cursor.

[0004] About the cursor controller constituted as mentioned above, the actuation is explained below. First, if cursor location information is inputted from the actuation input means 301, the repositioning means 302 will extract the coordinate positional information of cursor. It computes on which purpose of use cursor is placed with the purpose-of-use judging means 303 based on the coordinate positional information and the purpose-of-use field information from the purpose-of-use field management tool 304 which were acquired from the repositioning means 302. The magnitude of cursor, a configuration, or a color tone is changed with the cursor modification means 305 based on the information acquired from the purpose-of-use judging means 303. The purpose of use and cursor are displayed in a display 306.

[0005] As mentioned above, the magnitude of cursor, a configuration, and a color tone are controlled based on the field information in which cursor exists, and the same cursor will be displayed if it is on the same field.

[0006]

[Problem(s) to be Solved by the Invention] However, in order to make cursor easy to recognize visually with the above-mentioned conventional configuration, when it should be conspicuous in magnitude, the configuration, and the color tone, it received in activity eye and became offensive to the eye, and it received reversely in activity eye and had the trouble of becoming what it is hard to recognize visually carrying out at the cursor which is not offensive to the eye.

[0007] In this invention, the above-mentioned conventional trouble is solved, and it aims at offering the cursor controller which enabled it to recognize cursor easily visually, without receiving in activity eye and giving all trouble.

[0008]

[Means for Solving the Problem] In order to attain this object the cursor controller of this invention An actuation input means to specify a cursor location, and a repositioning means to move cursor to the specified coordinate location and to extract the coordinate positional information of cursor, It has a passing speed calculation means to compute a cursor advance rate based on the information acquired from said repositioning means, and the hour entry acquired from the timing generating means, and a cursor modification means to change the magnitude of cursor, a configuration, or a color tone based on the information from said passing speed calculation means.

[0009]

[Function] By this configuration, the passing speed of cursor can be computed and the magnitude of cursor, a configuration, a color tone, or these combination can be changed according to that rate.

[0010]

[Example] One example of this invention is explained below, referring to a drawing.

[0011] For a repositioning means and 103, as for a timing generating means and 105, in drawing 1, a passing speed calculation means and 104 are [101 / an actuation input means and 102 / a cursor modification means and 106] displays.

[0012] The actuation is explained about the cursor controller constituted as mentioned above. First, if cursor location information is inputted from the actuation input means 101, the repositioning means 102 will extract the coordinate positional information of cursor. A cursor advance rate is computed with the passing speed calculation means 103 based on the coordinate positional information acquired from the repositioning means 102, and the hour entry acquired from the timing generating means 104. With the cursor modification means 105, in case cursor is moved with the repositioning means 102, it changes to the cursor of the magnitude proportional to the rate information acquired from the passing speed calculation means 103, a configuration, or a color tone. The purpose of use and cursor are displayed in a display 106.

[0013] For example, if the passing speed of cursor is 1 or less dot in 1 second, cursor will judge that it is fixed, and will make cursor the magnitude of extent which does not become offensive to the eye for a user, or it will be made not to display the cursor itself. And it is made to change to cursor which is conspicuous to a user in the magnitude of cursor, a configuration, or a color tone according to passing speed at the time of migration of cursor. Of course, when [activity eye-] it seems that it is better to always display cursor, it can avoid changing cursor.

[0014] A concrete example is shown in drawing 2. An outer frame shows the whole display of a display 201, and the 1st Window202 and 2nd Window203 show a virtual terminal. When moving the cursor 204 in the coordinate location A 1st current [Window / 202] to the coordinate location C of 2nd Window203, the magnitude of cursor 204 is changed according to the passing speed of cursor 204. That is, in the coordinate location C which the magnitude of cursor will serve as max in the coordinate location B where passing speed serves as max, and will be in a idle state, it becomes the minimum magnitude of extent which does not become offensive to the eye again.

[0015] According to this example, according to the passing speed of cursor, the magnitude of cursor, a configuration, and a color tone can be changed by establishing a passing speed calculation means, a timing generating means, and a cursor modification means as mentioned above.

[0016]

[Effect of the Invention] The fault of the eyesight of being hard coming to recognize this invention at the time of migration of cursor visually as mentioned above is conquered, and a cursor's existence location can be shown clearly, and it also receives in activity eye, outstanding visual recognition nature of giving no trouble can be realized, and the practical effectiveness is very large.

[Translation done.]